CLAIM AMENDMENTS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Currently amended) A method comprising:

 communicating a combined Internet Protocol (IP) signal and an [[A]]asynchronous

 [[T]]transfer [[M]]mode (ATM/internet protocol (ATM/IP) signal via an optical medium, wherein the combined ATM/IP signal comprises an asynchronous transfer mode (ATM) signal that is phase modulated based on an internet protocol the (IP) signal to produce a combined ATM/IP signal. by:
 - the (IP) signal to produce a combined ATM/IP signal, by:

 transmitting wherein the combined ATM/IP signal is transmitted via the optical

 medium to a first optical network termination (ONT), wherein the first

 ONT that does not include demodulator circuitry; and

 transmitting the combined ATM/IP signal to a second ONT, wherein the second

 ONT that does includes the demodulator circuitry.
- (Currently amended) The method of claim 1, wherein the ATM signal is phase modulated based on the IP signal without exceeding a specified tolerance of symbol period of the ATM signal.
- (Previously presented) The method of claim 1, wherein the phase modulating encodes multiple bits of the IP signal per pulse in the ATM signal.
- (Previously presented) The method of claim 1, wherein the phase modulating encodes two bits of the IP signal per pulse in the ATM signal.
- (Previously presented) The method of claim 1, further comprising forming the combined ATM/IP signal by modulating a phase of the ATM signal based on the IP signal.

- (Previously presented) The method of claim 1, wherein the combined ATM/IP signal
 is transmitted via an ATM-based network comprising a G.983-based network.
- 7. (Currently amended) The method of claim 1, wherein the first ONT is at a first user location and the second ONT is at a second user location, and wherein the first ONT is to extract an AMT stream uniquely associated with the first user location.
- (Previously presented) The method of claim 1, wherein the combined ATM/IP signal is communicated via a passive optical network.
 - 9-11. (Canceled).
- 12. (Withdrawn) An optical network termination (ONT) to extract an Internet Protocol (IP) stream from a received signal, the ONT comprising:
 - a phase demodulator adapted to:
 - phase demodulate a combined Asynchronous Transfer Mode (ATM)/Internet Protocol (IP) signal to extract the IP stream, wherein the combined ATM/IP signal has been received and wherein the combined ATM/IP signal comprises an ATM signal that has been phase modulated based on an IP signal.
- 13. (Withdrawn) The ONT of claim 12, wherein the phase demodulator is further adapted to decode multiple bits of the IP stream per pulse in the combined ATM/IP signal.
- 14. (Withdrawn) The ONT of claim 12, wherein the phase demodulator is further adapted to decode two bits of the IP stream per pulse in the combined ATM/IP signal.

- 15. (Currently amended) An apparatus to communicate an [[A]]asynchronous [[T]]transfer [[M]]mode (ATM) signal and an [[I]]internet [[P]]protocol (IP) signal, the apparatus comprising:
 - an optical line terminal (OLT), the OLT comprising a phase modulator configured to
 phase modulate the ATM signal based on the IP signal to produce a combined
 asynchronous transfer mode/internet protocol (ATM/IP) signal, the OLT further
 to output the combined ATM/IP signal;[[,]]
 - wherein the combined ATM/IP signal is transmitted to a first optical network termination

 (ONT) that does not include demodulator circuitry and to a second ONT that does

 include includes the demodulator circuitry.
- 16. (Previously presented) The apparatus of claim 15, wherein the phase modulator is further configured to phase modulate the ATM signal based on the IP signal without exceeding a specified tolerance of symbol period of the ATM signal.
- 17. (Previously presented) The apparatus of claim 15, wherein the phase modulator is further configured to encode multiple bits of the IP signal per pulse in the ATM signal.
 - 18. (Canceled).
 - 19. (Withdrawn) A method of communicating an IP stream, the method comprising: extracting a first IP stream from a combined Asynchronous Transfer Mode (ATM) signal/Internet Protocol (IP) signal received at a first location, wherein extracting the first IP stream comprises phase demodulating the combined ATM/IP signal; wherein the combined ATM/IP signal comprises an ATM signal that has been phase modulated based on an IP signal.
- 20. (Withdrawn) The method of claim 19, further comprising extracting a first ATM stream from the combined ATM/IP signal received at a second location, wherein the extracted first ATM stream is specific to the second location.

- 21. (Withdrawn) The method of claim 20, further comprising extracting a second ATM stream from the combined ATM/IP signal received at a third location, wherein the second ATM stream is specific to the third location.
- (Withdrawn) The method of claim 19, further comprising extracting a second IP stream at a second location by phase demodulating the combined ATM/IP signal.
- 23. (Withdrawn) The method of claim 22, wherein the first IP stream is specific to the first location and the second IP stream is specific to the second location.
- (Withdrawn) The ONT of claim 12, wherein the extracted IP stream is specific to the ONT.
- 25. (New) The method of claim 1, further comprising demodulating a received signal and outputting a received IP stream derived from the received signal.
- (New) The apparatus of claim 15, wherein the OLT further comprises a phase demodulator.